

CCCACGCGTCCGGGCTTTTCTCTCGTGGGCTGGTCCCGAGCGGCTCCCTCCCGGAAACAGCTGCTGCTCCAGGGAGGAAGC  
GGCGCGGGTGGCTGTCCAGCTTCCCGGTGCTGAAAACCGGAGGGCTCCTCATCCACCACTACCATGTAAGGGCCATGAGA

	M	E	E	D	L	F	Q	L	R	Q	L	P	V	13
AGGGCTCATCTCTGGCGCAGCGCGGAC	ATG	GAG	GAG	GAC	TTA	TTC	CAG	CTA	AGG	CAG	CTG	CCG	GTT	39
V K F R R T G E S A R S E D D T A S G E														33
GTG AAA TTC CGT CGC ACA GGC GAG AGT GCA AGG TCA GAG GAC GAC ACG GCT TCA GGA GAG														39
H E V Q I E G V H V G L E A V E L D D G														53
CAT GAA GTC CAG ATT GAA GGG GTC CAC GTG GGC CTA GAG GCT GTG GAG CTG GAT GAT GGG														159
A A V P K E F A N P T D D T F M V E D A														73
GCA GCT GTG CCC AAG GAG TTT GCC AAT CCC ACC GAT GAT ACT TTC ATG GTG GAA GAT GCA														219
V E A I G F G K F Q W K L S V L T G L A														93
GTG GAA GCC ATT GGC TTT GGA AAA TTT CAG TGG AAG CTG TCT GTT CTC ACT GGC TTG GCT														279
W M A D A M E M M I L S I L A P Q L H C														113
TGG ATG GCT GAT GCC ATG GAG ATG ATG ATC CTC AGC ATC CTG GCA CCA CAG CTG CAT TGC														339
E W R L P S W Q V A L L T S V V F V G M														133
GAG TGG AGG CTC CCA AGC TGG CAG GTG GCA TTG CTG ACC TCG GTG GTC TTT GTA GGC ATG														399
M S S S T L W G N I S D Q Y G R K T G L														153
ATG TCC AGC TCC ACG CTC TGG GGA AAT ATC TCA GAC CAG TAC GGC AGG AAA ACA GGC CTG														459
K I S V L W T L Y Y G I L S A F A P V Y														173
AAG ATC AGC GTG CTG TGG ACT CTG TAC TAT GGC ATC CTT AGT GCA TTT GCG CCC GTG TAT														519
S W I L V L R G L V G F G I G G V P Q S														193
AGC TGG ATC CTG GTG CTC CGG GGC CTG GTG GGC TTC GGG ATC GGA GGA GTT CCC CAG TCG														579
V T L Y A E F L P M K A R A K C I L L I														213
GTG ACG CTG TAT GCC GAG TTC CTT CCC ATG AAA GCC AGA GCT AAA TGT ATT TTG CTG ATT														639
E V F W A I G T V F E V V L A V F V M P														233
GAG GTA TTC TGG GCC ATC GGG ACA GTG TTC GAG GTC GTC CTG GCT GTG TTC GTG ATG CCC														699
S L G W R W L L I L S A V P L L L F A V														253
AGC CTG GGC TGG CGT TGG CTG CTC ATC CTC TCA GCT GTC CCG CTC CTC CTC TTT GCC GTG														759
L C F W L P E S A R Y D V L S G N Q E K														273
CTG TGT TTC TGG CTG CCT GAA AGT GCA AGG TAT GAT GTG CTG TCA GGG AAC CAG GAA AAG														819
A I A T L K R I A T E N G A P M P L G K														293
GCA ATC GCC ACC TTA AAG AGG ATA GCA ACT GAA AAC GGA GCT CCC ATG CCG CTG GGG AAA														879
L I I S R Q E D R G K M R D L F T P H F														313
CTC ATC ATC TCC AGA CAG GAA GAC CGA GGC AAA ATG AGG GAC CTT TTC ACA CCC CAT TTT														939
R W T T L L L W F I W F S N A F S Y Y G														333
AGA TGG ACA ACT TTG CTG CTG TGG TTT ATA TGG TTT TCC AAT GCA TTC TCT TAC TAC GGG														999

Figure 1

L V L L T T E L F Q A G D V C G I S S R	353
TTA GTT CTA CTC ACC ACA GAA CTC TTC CAG GCA GGA GAT GTC TCC GGC ATC TCC AGT CCG	1059
K K A V E A K C S L A C E Y L S E E D Y	373
AAG AAG GCT GTA GAG GCA AAA TGC AGC CTG GCC TGC GAG TAC CTG AGT GAG GAG GAT TAC	1119
M D L L W T T L S E F P G V L V T L W I	393
ATG GAC TTG CTG TGG ACC ACC CTC TCT GAG TTT CCA GGT GTC CTT GTG ACT CTG TGG ATT	1179
I D R L G R K K T M A L C F V I F S F C	413
ATT GAC CGC CTG GGG CGC AAG AAG ACC ATG GCC CTG TGC TTT GTC ATC TTC TCC TTC TGC	1239
S L L L F I C V G R N V L T L L L F I A	433
AGC CTC CTG CTG TTT ATC TGT GTT GGA AGA AAT GTG CTC ACT CTG TTA CTC TTC ATT GCA	1299
R A F I S G G F Q A A Y V Y T P E V Y P	453
AGA GCG TTT ATT TCT GGA GGC TTT CAA GCG GCA TAT GTT TAC ACA CCT GAG GTC TAC CCC	1359
T A T R A L G L G T C S G M A R V G A L	473
ACG GCA ACG CGG GCC CTC GGC CTG GGC ACC TGC AGC GGC ATG GCA AGA GTG GGT GCT CTC	1419
I T P F I A Q V M L E S S V Y L T L A Y	493
ATC ACT CCG TTC ATC GCC CAG GTG ATG CTG GAA TCC TCT GTG TAC CTG ACT CTG GCA GTT	1479
Y S G C C L L A A L A S C F L P I E T K	513
TAC AGT GCG TGC TGC CTC CTG GCT GCC CTG GCC TCC TGC TTT TTG CCC ATT GAG ACC AAA	1539
G G G L Q E S S H R E W G Q E M V G R G	533
GGC GGA GGA CTG CAG GAG TCC AGC CAC CGG GAG TGG GGC CAG GAG ATG GTC GGC CGA GGA	1599
M H G A G V T R S N S G S Q E *	549
ATG CAC GGT GCA GGT GTT ACC AGG TCG AAC TCT GGC TCT CAG GAA TAG	1647

TGACCGATGGGGGACTGAGCTGGTCTTTGAGGCTGCAGAGCTTGGGGGGCTGGCAGGCCCACTGGGGCACTGATTGT  
 CACTGCCGACATCAAGAACTCACCCAAGAGTATGACCTGGACCAACAGGGTTTTGTGTCTTGACTCAGTTTCTCTCATCT  
 TCATTGAGGTCCACCCAGGGATGGGGAGATGTTTGCTCTAGGGGGTTCTCTGTATATGTGGTGAAAGCTTTGTTCTATAA  
 CCTGTGGATCTACATGGGAAGACTACCCATATTAGGAGGGTCTGGTAATGCCAGCAACCAATCAGACACCACCCAGAGT  
 CACCCGGCCAAACCCCTCAGTGAACAACCAAAATATCTCTCTGTAGATACCGTCCAGGCTCAGGCCCATGTGACACCTGC  
 TGTCCACCCACCGGACCTGTTTCAGTAGGTTTCTCCACACCCACAGCCCCAGGCTTTCTTCTTTGAAATTGCAGGGCAT  
 CTAGGTGTGGTCTGAGCAGCTATTTCCCTGGCAGGGGCCCCCGGTTTGCCTCCCTAGAGCCTGACCAGTGGATTCTCTG  
 GCAGATGGACATGGTGCAITTCAAACTGGAGCCACATGCCCCCAGCCCTTNTTGGAGTTGCCCGTTGTTGGCACCA  
 AGAGATCCAGATGTGTCTGGGGACAGCTGGGTCTTGCACCAGGTGACAACCTCAAAACGCCCGTTACCCCTGGGGAAC  
 TGAGGACTGAGSGCCAAGTG

Figure 1 continued



Figure 3

GTCGACCCACGCGTCCGAGCAAAGAGGATTACATGGACCTGCTGTGGACCACCCTGTCTG  
 AGTTCACAGGTGTCTTGTGACTCTGTGGGTCATCGACCGCCTGGGCCGCAAGAAGACCA  
 TGGCTCTGTGTTTCGTCACTCTTTCCCTCTGCAGCCTCCTGCTGTTCACTCTGCATTGGAA  
 GAAATGTGCTAACCCTCTTACTGTTCAATTGCAAGAGCGTTTATTCTGGAGGCTTCCAAG  
 CAGCCTACGTTTACACGCCTGAGGTGTATCCAACGGCGACGAGGGCGCTGGGCCTGGGCA  
 CCTGCAGCGGCATGGCGAGAGTGGGCGCGCTCATCACTCCATTATAGCTCAGGTGATGC  
 TGGAAATCTTCCGTGTACCTGACCCTGGCCGTCTACAGTGGCTGCTGCCCTCCTTGCTGCCCT  
 TGGCCTCCTGCTTCTGCCCATCGAGACCAAAGGCCGAGCACTGCAGGAGTCCAGCCACC  
 GGGAGTGGGGCCAGGAGATGGTTGGCCGAGGGACAAACAGCACAGGCGTCCCCAGGTCTGA  
 ACTCTGGCTCTCAGGAGTAGTGACCCCTGGGAGTTGAGCTGGTCTTTGAGGCCGGAGCCT  
 AGAAAGCTGGCAGAGCCCAGCTGGGCCACTAACGGTCACTGCCGACATCAAGAACTTTCC  
 CCGAGTGGGCGAAGTGAACCGACAGGGTTTTGTGTCTTCACTGTGTTGGCCTATGTTCA  
 TCGAGGGTTGCCCCGCCCCAGGAAGATGGGGCTGCATTCACTCCAGGGGGTTCTTCCGTAG  
 TGGGGGAAAGGGTTGGTACGTCGCCGTGGATCTGCATGGGGGAAGCTGCTAGTGTGGGAG  
 GGTCCCAGGGCGCTCAGGGCCAGCTGAGCAGATGTCACTGGTTACCCAGTCATACCCCTT  
 GGAGAGCCACTGTCCAAAGATCTCCATAGATACAGTCTCAGCCCAGACCCCTGTGACACC  
 CGCCATTTTGTCCAGTAAGTTTCTCCTGCACCCCTGGCCCCAGGATGTCTTTGGAATTAAG  
 ACAAGCTAATTAGTGTCCGACTAGAGCAGCTTTTCTGGAGCCTGAGACACCCCCCTCCCC  
 GTTCTCTCTTGGTTGGGCCCCCTCTAGATGTCTCTTCAGGGCCTGCCGGGTAGAACTGA  
 CTGAAGAATGTGCTTGTGAATTTGAGCCAAGCATCATCCCCATTGACCCCTTCTGGAGC  
 CTCTGTCTCTGGCTGCAGAGGGTCTCTTATATTTCTGGGGAGAGCTAGGTACCCACCAG  
 GCGACAGACCCAGAAAATTGTTAACCCATTCCCTGTCTTGGAAATCGGAGAGTGAGGCCT  
 AGCAGAGGGGAGACTAAGGGCCAAAACCAAAGCCAGAGTCACCCCTGAAGCAGTTAGGGC  
 CTTTCTGGGCCCCCTCTCTTACCCTCCCACCCCACTCAGCCCCACTACATAGCGAGTCC  
 CGGTTTCTCAGGCTTCCAGACTCGTCTGTGTGTAGGTGGCGGCATGAGCTTAGGGATCT  
 CCATGGCAAAGCACCAAGTGCCGGCCCCATTAACTCTTGGGACGGAGAACCTGTTGCCCT  
 TCCGGCTCTGCTCTGCTTCTCTCTCTGCTCCTCTGTCAAGGGCAGGGCTGGTCTTACAG  
 AGGCGGGTCCCCGGGAGGATGTCCCGGCTCGAGGATCAGGAAAGCCCATCTCAGAGGGAGA  
 CAGGAGGCTGTTGTCTTGGCCTCAGGAGGAAGGTAGGTCTGAAGGCAGTCCACGTGTACT  
 CCCGGATTCCGGAACGCACGAGCCGCCCTCTGAGATTGAGGAAGAAGCACGAGGGGG  
 AGGAAGGAGATGGCCAGGCCCCAATCAAAGGCCAGAGGAACTGGCCGCTTTGCTTGATG  
 GACACCTCGCAAGGGAGCCAAATGTGCGTTGTGCGCTCATCTCTTA

Figure 4